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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	CONFIRMATION NO.	
10/552,507	12/19/2006	Akihisa Inoue	053128	4427
	7590 09/03/200 I, HATTORI, DANIEL	EXAMINER		
1250 CONNEC	TICUT AVENUE, NV	ZHENG, LOIS L		
SUITE 700 WASHINGTO	N, DC 20036		ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			09/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Communication		А	pplication No.	ication No. Applicant(s)					
		1	0/552,507		INOUE ET AL.				
Office Action Summary			xaminer		Art Unit				
		Lo	OIS ZHENG		1793				
The Period for Rep	MAILING DATE of this commur ly	nication appear	rs on the cover	sheet with the c	orrespondence ad	ddress			
WHICHEVE - Extensions of after SIX (6) N - If NO period f - Failure to rep Any reply rec	NED STATUTORY PERIOD F ER IS LONGER, FROM THE Natime may be available under the provisions MONTHS from the mailing date of this commor reply is specified above, the maximum single y within the set or extended period for reply sived by the Office later than three months at term adjustment. See 37 CFR 1.704(b).	MAILING DATE s of 37 CFR 1.136(a) munication. tatutory period will ap will, by statute, cau	E OF THIS CO  ). In no event, howe  pply and will expire  use the application to	OMMUNICATION ever, may a reply be time SIX (6) MONTHS from to become ABANDONEI	I. lely filed the mailing date of this of (35 U.S.C. § 133).				
Status									
1)⊠ Resp	onsive to communication(s) file	ed on <i>19 Dece</i>	ember 2006						
· <u> </u>	Responsive to communication(s) filed on <u>19 December 2006</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.								
<i>′</i> =		<i>′</i> —			secution as to the	e merits is			
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of	Claims		•						
- 4)⊠ Claim	(s) 1-4 is/are pending in the a	onlication							
· —	Claim(s) <u>1-4</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.								
·	5) Claim(s) is/are allowed. 6) Claim(s) <u>1-4</u> is/are rejected.								
·	(s) is/are objected to.								
•	(s) are subject to restrict	ction and/or el	ection require	ment.					
Application Pa									
•	pecification is objected to by th								
•	rawing(s) filed on is/are		-						
	ant may not request that any obje		• , ,	-	* *				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under	35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2) Notice of Dra 3) Information [	ferences Cited (PTO-892) aftsperson's Patent Drawing Review (F Disclosure Statement(s) (PTO/SB/08) Mail Date <u>10/5/05</u> .	PTO-948)	5)	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	te				

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## **DETAILED ACTION**

## Status of Claims

1. Claims 1-4 are currently under examination.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 2002-105609(JP'609).

JP'609 teaches a hydrogen storage alloy comprising the same Zr<sub>100-a-b</sub>Pd<sub>a</sub>M<sub>b</sub> wherein 15≤a≤40, 0≤b≤10, and M is Pt, Au, Fe, Co or Ni. JP'609 further teaches that superfine nano size Pd particles are dispersed in ZrO<sub>2</sub>. In addition, the hydrogen storage alloy is produced by melting of master alloy, rapidly solidifying at a cooling rate of 10<sup>4</sup>K/s or more, and heat treating in oxidizing environment, such as air or oxygen, at 250-350°C(abstract). JP'609 further teaches that the amount of hydrogen occulsion is 2.5% or more based on Pd and its hydrogen storage alloy is suitable for use as a hydrogen storage/transportation medium. See abstract.

Therefore, JP'609 anticipates instant claims 1-4.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LOIS ZHENG whose telephone number is (571)272-1248. The examiner can normally be reached on 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Roy King/ Supervisory Patent Examiner, Art Unit 1793